

Comparisons of Job Characteristics

Focus Occupation: **Operations Research Analysts (15-2031)**

Associated Occupation: **Economists (19-3011)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

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| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Operations Research Analysts (15-2031)

Associated Occupation: Economists (19-3011)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|---|
| English Language | 11.2 | 18.9 | 10.9 | << Extensive education and/or training may be required |
| Mathematics | 9.2 | 17.9 | 24.4 | >> Current knowledge level is likely more than sufficient |
| Economics and Accounting | 4.4 | 17.7 | 8.0 | << Extensive education and/or training may be required |
| Computers and Electronics | 8.4 | 14.4 | 15.0 | 0 Current knowledge level may be sufficient |
| Law and Government | 5.9 | 11.0 | 3.1 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Operations Research Analysts (15-2031)

Associated Occupation: Economists (19-3011)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Critical Thinking | 10.8 | 13.6 | 15.2 | > Skill level is likely sufficient |
| Complex Problem Solving | 9.1 | 13.0 | 15.4 | > Skill level is likely sufficient |
| Writing | 9.2 | 13.0 | 13.0 | 0 Current skill level may be sufficient |
| Mathematics | 6.2 | 12.3 | 16.9 | >> Skill level is likely more than sufficient |
| Judgment and Decision Making | 9.4 | 12.0 | 14.2 | > Skill level is likely sufficient |
| Systems Analysis | 6.5 | 11.5 | 14.5 | > Skill level is likely sufficient |
| Systems Evaluation | 6.4 | 9.7 | 15.1 | >> Skill level is likely more than sufficient |
| Operations Analysis | 5.0 | 9.1 | 13.5 | >> Skill level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 96 | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Operations Research Analysts (15-2031) Associated Occupation: Economists (19-3011) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Oral Expression | 12.4 | 15.9 | 13.9 | < | Some improvement in abilities may be required |
| Written Expression | 9.8 | 15.7 | 14.5 | 0 | Current ability level may be sufficient |
| Oral Comprehension | 12.5 | 14.8 | 13.9 | 0 | Current ability level may be sufficient |
| Written Comprehension | 11.0 | 14.5 | 15.7 | 0 | Current ability level may be sufficient |
| Deductive Reasoning | 10.6 | 13.2 | 15.0 | > | Current ability level is likely sufficient |
| Inductive Reasoning | 10.2 | 12.5 | 14.2 | > | Current ability level is likely sufficient |
| Mathematical Reasoning | 6.3 | 11.6 | 17.3 | >> | Current ability level is likely more than sufficient |
| Number Facility | 6.3 | 11.3 | 15.1 | >> | Current ability level is likely more than sufficient |
| Fluency of Ideas | 7.6 | 10.1 | 13.3 | >> | Current ability level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 84 |
|---|-------------------------|---|
| Focus Occupation: Operations Research Analysts (15-2031) Associated Occupation: Economists (19-3011) | | |
| Work Activities | Exclusivity of Activity | |
| Advise clients or customers | 19 | |
| Advise governmental or industrial personnel | 28 | |
| Analyze scientific research data or investigative findings | 27 | |
| Collect scientific or technical data | 30 | |
| Collect statistical data | 47 | |
| Communicate technical information | 4 | |
| Compile numerical or statistical data | 38 | |
| Confer with research personnel | 50 | |
| Create mathematical or statistical diagrams or charts | 43 | |
| Develop or maintain databases | 30 | |
| Develop tables depicting data | 33 | |
| Direct and coordinate scientific research or investigative studies | 27 | |
| Explain complex mathematical information | 30 | |

| | |
|---|----|
| Make presentations | 13 |
| Perform statistical modeling | 76 |
| Plan scientific research or investigative studies | 48 |
| Prepare reports | 8 |
| Prepare technical reports or related documentation | 22 |
| Provide expert testimony on research results | 66 |
| Recommend further study or action based on research data | 60 |
| Use computers to enter, access or retrieve data | 3 |
| Use knowledge of investigation techniques | 16 |
| Use library or online Internet research techniques | 21 |
| Use mathematical or statistical methods to identify or analyze problems | 30 |
| Use quantitative research methods | 35 |
| Use relational database software | 26 |
| Use scientific research methodology | 21 |
| Use spreadsheet software | 18 |
| Use word processing or desktop publishing software | 17 |
| Write scholarly or technical research papers | 36 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 94

Focus Occupation: Operations Research Analysts (15-2031)
Associated Occupation: Economists (19-3011)

| Tools and Technologies | Exclusivity |
|--|-------------|
| Business function specific software | 1 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Data management and query software | 1 |
| Development software | 4 |
| Finance accounting and enterprise resource planning ERP software | 2 |
| Industry specific software | 1 |
| Information exchange software | 1 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.